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50. (New) The biopharmaceutical product cryopreservation system of claim 45, wherein the biopharmaceutical product cryopreservation system comprises more than one cryopreservation-vial.

REMARKS

Claims 1-40 were originally presented in the parent application. Claims 1, 11-13 and 27 have hereinabove been amended and claims 41-50 added to more particularly point out and distinctly claim the subject invention. Therefore, claims 1-50 remain in this case.

Support for the amendment to claims 1, 11-13, 27 and new claims 41-50 can be found throughout the specification and, therefore, no new matter has been added.

Applicants respectfully request substantive examination of claims 1-50.

Attached hereto is a marked up version of the changes made to the claims by the current amendment. The attached pages are captioned "Version with Markings to Show Changes Made."

CONCLUSION

If a telephone conference would be of assistance in advancing prosecution of the subject application, Applicants' undersigned attorney invites the Examiner to telephone him at the number provided.

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Dated: March 27, 2002.

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Version with Markings to Show Changes Made

Please amend claims 1, 11-12, 13 and 27 as follows:

1. (Amended) A biopharmaceutical product cryopreservation system, for cryopreserving a biopharmaceutical product, comprising:

a cryopreservation compartment;

a cryopreservation fluid located within the cryopreservation compartment; and

a biopharmaceutical product cryopreservation vial located within the cryopreservation compartment ~~and surrounded by the cryopreservation fluid~~, and

the biopharmaceutical product cryopreservation vial comprising a body that comprises an oblong cross-section defining proximal and distal ends of the body, and at least one nucleating structure, coupled to ~~a at least one of the proximal and distal end ends of the body, the at least one nucleating structure contacting the cryopreservation fluid~~, and the body comprising a cryogenically stable material that is compatible with biopharmaceutical products.

11. (Amended) The biopharmaceutical product cryopreservation system of claim 10, wherein the cryopreservation fluid and the media ~~absent the biopharmaceutical product~~ are substantially identical in composition.

12. (Amended) The biopharmaceutical product cryopreservation system of claim 10, wherein a thermal conductivity and/or a specific heat of the cryopreservation vial walls are substantially similar to those of the media or the cryopreservation fluid.

13. (Amended) A method of cryopreserving biopharmaceutical products comprising

providing a cryopreservation compartment;

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locating a biopharmaceutical product cryopreservation vial within the cryopreservation compartment, wherein the biopharmaceutical product cryopreservation vial comprises a body that comprises an oblong cross-section defining proximal and distal ends of the body, and at least one nucleating structure, coupled to a at least one of the proximal and distal end ends of the body, and the body comprising a cryogenically stable material that is compatible with biopharmaceutical products; ²

locating a cryopreservation fluid in a space outside of the cryopreservation vial but within the cryopreservation compartment; and

removing heat from the cryopreservation compartment, thereby freezing the cryopreservation fluid.

27. (Amended) A biopharmaceutical product cryopreservation vial comprising:

a body that comprises an oblong cross-section defining proximal and distal ends of the body,

at least one nucleating structure, coupled to a at least one of the proximal and distal end ends of the body, and

the body comprising a cryogenically stable material that is compatible with biopharmaceutical products.

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